

Work Order ID 136591

136591

Page 1

Thursday, September 03, 2015 8:07:50 AM

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: AS350 Cable Cutter System
Start Date: 9/4/2015 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 9/11/2015 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: MLJ Date: SEP 04 2015 Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	B								
100	Document Control	0.00				DAS 27 9-89			MLJ 15-11-09
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

NOV 2 6 2015

NOV 0 3 2015

NOV 2 6 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 136591***136591***

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Thursday, September 03, 2015 8:07:50 AM

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Cable Cutter System
Start Date: 9/4/2015 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 9/11/2015 Req'd Qty: 1.00 ***1*** Customer:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001								
	Location: <i>Sold</i>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

IX **DAS** **28** **NOV 26 2015**
9-89 **27**
9-89

ML5 **15-11-26**
ML5 **15-11-26**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
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Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

Thursday, September 03, 2015 8:07:54 AM

Page 1

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646 3301* Upper Cutter Assy	DAS 7 9-89	Manufactured	No				Each	0.0000	**	1 <u>136156</u>		DAS 6 9-89	DAS 28 9-89
646.3001 *646 3001* Lower Cutter Assy	DAS 27 9-89	Manufactured	No				Each	0.0000	**	1 <u>136276</u> 1-36725		DAS 6 9-89	DAS 28 9-89
646.2910 *646 2910* Deflector	DAS 27 9-89	Manufactured	No				Each	3.0000	**	1 <u>136136</u>		NOV 12 2015 DAS 6 9-89	DAS 28 9-89
DAS 27 9-89 <u>Location</u> CCK050 123356 <u>Loc Qty</u> 3 3 <u>Loc Code</u> 													
646.3810 *646 3810* Bracket	DAS 27 9-89	Manufactured	No				Each	1.0000	**	2 <u>136186</u>		DAS 6 9-89	DAS 28 9-89
DAS 27 9-89 <u>Location</u> cck104 131001 <u>Loc Qty</u> 1 1 <u>Loc Code</u> 													
646.3510 *646 3510* Strut	DAS 27 9-89	Manufactured	No				Each	5.0000	**	1 <u>136186</u>		DAS 6 9-89	DAS 28 9-89
DAS 27 9-89 <u>Location</u> cck15a 127077 <u>Loc Qty</u> 5 5 <u>Loc Code</u> 													

NOV 06 2015

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

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Page 2

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

646.3511

Manufactured No

Each 2.0000

646 3511

Strut

**

1

136159

DAS
28

9-89 DAS
8
9-89

Location

Loc Qty

Loc Code

cck102

2

102891

2

647.0112

Manufactured No

Each 165.0000

647 0112

Strut Bracket

**

2

Location

Loc Qty

Loc Code

CCK109

165

112215

10

122245

5

122871

36

123318

22

M130388

92

2

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

647.7703

Manufactured No

Each 0.0000

647 7703

Strut Assembly

**

2

136140

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

NOV 06 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

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Thursday, September 03, 2015 8:07:54 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

1,499.000

138

NAS1149F0332P

133/34 X 103

M133284X28

Washer

Location

Loc Qty

Loc Code

GA	210
122063	210
ST260a	1196
m128401	6
m131026	80
m131697	110
m133077	1000
st268	93
123900	7
m130388	86

DAS
6
9-89

DAS
28
9-89

MS21042L3

Purchased

No

Each

811.0000

61

MS21042L3

133498

DAS
6
9-89

DAS
28
9-89

Nut

Location

Loc Qty

Loc Code

FP001	377
M130922	377
GA	227
M131317	227
ST305	207
116549	12
126333	49
M128754	2
M132123	17
M132382	2
M132883	17
M132930	108

DAS
27
9-89

NOV 06 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

646.3110	Manufactured	No		Each	0.0000	1		DAS 28 9-89
646.3110							136153	
Channel								
646.3710	Manufactured	No		Each	21.0000	1		DAS 28 9-89
646.3710								
Doubler								
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			CCK015	21				
			127550	21				
646.3210	Manufactured	No		Each	0.0000	1		DAS 28 9-89
646.3210							135549	
Support								
646.3713	Manufactured	No		Each	13.0000	1		DAS 28 9-89
646.3713								
Gusset								
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			cck103	13				
			120631	13				
MS24694-S51	Purchased	No		Each	172.0000	5		DAS 28 9-89
MS24694-S51								
Screw								
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST289	172				
			m130928	172				

NOV 06 2015

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Description Work Order Deviation			Disposition		
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			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
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136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-13A Purchased No

Each 57.0000 1

AN3-13A

Bolt

DAS 6 28
9-09 9-09

Location Loc Qty Loc Code

CA 3
m129682 3
GA 20
m127070 20
ST349 34
m131305 34

Each 138.0000 10

DAS 6 28
9-09 9-09

AN3-4A Purchased No

AN3-4A

Bolt

Location Loc Qty Loc Code

CA 110
m129682 110
ST350 28
m132317 7
m133064 21

Each 146.0000 14

NOV 06 2015
DAS 6 28
9-09 9-09

CR3213-5-3 Purchased No

CR3213-5-3

Cherry Rivet

Location Loc Qty Loc Code

ST319 146
m127831 30
m130388 16
m132763 100

****** 03 131340 X9

DAS 6 28
9-09 9-09

Thursday, September 03, 2015 8:07:54 AM

Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-5.5

Purchased

No

Each

183.0000

8

DAS
6
9-09

DAS
28
9-09

MS20470AD5-5 5

Rivet

Location

Loc Qty

Loc Code

ST310

183

123425

183

Each

33.0000

1

DAS
6
9-09

DAS
28
9-09

646.3711

Manufactured

No

646 3711

Clip

Location

Loc Qty

Loc Code

cck103

33

120626

33

Each

23.0000

1

DAS
6
9-09

DAS
28
9-09

646.3712

Manufactured

No

646 3712

Clip

Location

Loc Qty

Loc Code

cck103

23

101119

1

120630

22

Each

19.0000

1

DAS
6
9-09

NOV 06 2015

646.3811

Manufactured

No

646 3811

Radius Block

Location

Loc Qty

Loc Code

cck104

19

110717

4

122938

15

DAS
28
9-09

DAS
27
9-09

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
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Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition			Completed By																		
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

Picklist Print

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Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-6A Purchased No

Each 168.0000 2

DAS
6
9-89
DAS
28
9-89

AN3-6A

Bolt

**

BAS
27
9-89

Location

Loc Qty

Loc Code

ST338a

100

M131305

100

2

ST349

68

M133064

68

MS24694-S55

Purchased No

Each 99.0000 1

DAS
6
9-89
DAS
28
9-89

MS24694-S55

Screw

**

BAS
27
9-89

Location

Loc Qty

Loc Code

ST289

99

m132803

99

1

646.3610

Manufactured No

Each 0.0000 1

DAS
6
9-89
DAS
28
9-89

646 3610

Filler

**

BAS
27
9-89

Location

Loc Qty

Loc Code

cck103

14

120632

14

1

646.3714

Manufactured No

Each 14.0000 1

DAS
6
9-89

646 3714

Gusset

**

BAS
27
9-89

NOV 15 2015

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐			

Picklist Print

Page 8

Thursday, September 03, 2015 8:07:55 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-6

Purchased

No

Each

1,056.000

8

DAS

6

DAS

28

MS20470AD5-6

RIVET

**

9-09

9-09

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

166

105433

166

Each

0.0000

2

DAS

6

DAS

28

646.3812

Manufactured

No

646.3812

Gusset Bracket

AN3-3A

Purchased

No

Each

285.0000

4

DAS

6

DAS

28

AN3-3A

Bolt

**

DAS

6

DAS

28

9-09

9-09

Location

Loc Qty

Loc Code

ST338a

200

m131624

200

ST350

85

m132317

85

Each

12.0000

1

DAS

6

DAS

28

9-09

9-09

646.3813

Manufactured

No

646.3813

Strut Bracket

**

NOV 06 2015

Location

Loc Qty

Loc Code

cck104

9

127453

4

132541

5

CCK23a

3

130946

3

BAS

27

9-09

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
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				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
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OTHER : ☐					

Picklist Print

Page 9

Thursday, September 03, 2015 8:07:55 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-7

Purchased

No

Each

542.0000

3

MS20470AD5-7

Rivet

DAS

DAS

6

28

9-89

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST309

542

123425

542

3

MS21047-3

Purchased

No

Each

73.0000

18

MS21047-3

Nut Plate

133/34

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

ST273A

50

m133031

50

ST303

23

m130388

8

m132763

15

DAS
27
9-89

CCR264SS3-02

Purchased

No

Each

88.0000

36

CCR264SS3-02

Rivet, Cherry

133/34

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

ST321

88

M132317

88

AN3-5A

Purchased

No

Each

196.0000

2

AN3-5A

Bolt

133483

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

CA

132

m129682

132

GA

64

m131420

64

DAS
27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																		
Large Fab ☐	Composite ☐	Supplier ☐																			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval																	
Description Work Order Deviation			Disposition																		
			Completed By																		
			Lead hand / Supervisor Approval Verification																		
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Root Cause		FAULT CATEGORY																			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																
OTHER : _____																					

Picklist Print

Page 10

Thursday, September 03, 2015 8:07:55 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

646.3715 Manufactured No

Each 0.0000

2

646 3715

**

136215

DAS

DAS

Strut Doubler

6

28

MS27039-1-12

Purchased No

Each 110.0000

6

**

DAS

DAS

MS27039-1-12

6

28

Screw

9-09

9-09

Location

Loc Qty

Loc Code

ST285

110

m128799

2

m131317

8

m133031

100

6

646.3716 Manufactured No

Each 4.0000

1

646 3716

**

136120

DAS

DAS

Gauge Bracket

6

28

9-09

9-09

Location

Loc Qty

Loc Code

cck103

4

133105

4

MS20426AD5-7

Purchased No

Each 122.0000

2

**

DAS

DAS

MS20426AD5-7

6

28

RIVET

9-09

9-09

Location

Loc Qty

Loc Code

ST312

122

101340

22

M132767

100

2

MS24694-S54

Purchased No

Each 92.0000

2

**

MS24694-S54

SCREW

Location

Loc Qty

Loc Code

ST289

92

m130388

6

m133031

86

2

NOV 06 2015

DAS

DAS

6

28

9-09

9-09

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
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Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval																	
Description Work Order Deviation		Disposition		Completed By																	
				Lead hand / Supervisor Approval Verification																	
				QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																
OTHER : _____																					

Picklist Print

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Thursday, September 03, 2015 8:07:55 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-21

Purchased

No

Each

424.0000

4

MS27039-1-21

Screw

DAS
27
9-09

Location

Loc Qty

Loc Code

ST273A

395

m127904

395

ST284

29

m126319

29

Each

214.0000

2

MS27039-1-20

Purchased

No

MS27039-1-20

Screw

DAS
27
9-09

Location

Loc Qty

Loc Code

ST284

214

124326

214

Each

87.0000

22

MS27039-1-19

Purchased

No

MS27039-1-19

Screw

DAS
27
9-09

Location

Loc Qty

Loc Code

GA

32

m124326

32

ST285

55

m127904

55

Each

13.0000

1

646.3717

Manufactured

No

646 3717

Doubler

DAS
27
9-09

Location

Loc Qty

Loc Code

cck103

13

120633

13

DAS
6
9-09

DAS
28
9-09

DAS
6
9-09

DAS
28
9-09

DAS
6
9-09

DAS
28
9-09

DAS
6
9-09

DAS
28
9-09

NOV 06 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Thursday, September 03, 2015 8:07:55 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

646.3718 Manufactured No

Each 0.0000 2

646 3718

Custom Washer

**

135559

DAS

DAS

646.3719

Manufactured No

Each 21.0000 2

646 3719

Doubler

**

6

28

9-89

9-89

DAS

28

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

cck126

21

120634

21

Each

431.0000

2

**

DAS

6

9-89

MS27039-1-10

Purchased No

MS27039-1-10

SCREW

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST273A

200

m132677

200

ST285

140

m123522

2

m132640

138

Each

114.0000

10

**

DAS

6

9-89

DAS

28

9-89

AN3-11A

Purchased No

AN3-11A

Bolt

Location

Loc Qty

Loc Code

ST338a

114

m125709

14

m132823

100

DAS

27

9-89

DAS

6

9-89

DAS

28

9-89

NOV 06 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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Thursday, September 03, 2015 8:07:55 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

600.0990 Purchased No

Each 47.0000 1

600 0990

MAGNABOND 6398 PART A

DAS 28
6 9-09 3-89

Location

Loc Qty

Loc Code

CA2

26

M131589

26

2/11/2016

PKG

21

M129818

21

7/16/2015

600.0991 Purchased No

Each 47.0000 1

600 0991

MAGNOBOND 6398 PART B

DAS 28
6 9-09 9-89

Location

Loc Qty

Loc Code

CA2

27

m131589

27

2/11/2016

PKG

20

M129818

20

7/16/2015

600.1012 Purchased No

Each 16.0000 1

600 1012

Sealant PR1425B2 (#654 sem)

133380

DAS 28
6 9-09 9-89

Location

Loc Qty

Loc Code

cck017

14

m132805

14

cck018

2

m129749

1

m131364

1

10/30/2015

600.0129 Purchased No

f 272.0000 8

600 0129

VHB TAPE 75935A651

DAS 6
9-09

NOV 06 2015

Location

Loc Qty

Loc Code

CCK095

272

m131311

272

8 feet

DAS 28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By 	
								Lead hand / Supervisor Approval Verification 	
								QC / QA Coordinator Approval 	

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____ _____ _____					
Misidentified ☐	☐ Past Due						

Picklist Print

Thursday, September 03, 2015 8:07:56 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

600.1013 Purchased No

Each 910.0000 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS 6 28
9-09 9-09

DAS
27
9-09

Location

Loc Qty

Loc Code

CCK095

910

m131145

910

6/15/2016

S
4

646.3910 Manufactured No

Each 32.0000

646 3910

Shim

DAS 6 28
9-09 9-09

DAS
27
9-09

Location

Loc Qty

Loc Code

cck104

32

122951

32

4

646.3911 Manufactured No

Each 75.0000

646 3911

Shim

DAS 6 28
9-09 9-09

DAS
27
9-09

Location

Loc Qty

Loc Code

cck023

50

126059

50

cck104

18

126229

18

k023a

7

123075

7

1

NOV 06 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Thursday, September 03, 2015 8:07:56 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

646.3912 Manufactured No

Each 65.0000 4

646.3912

Shim

DAS
6 28
9-09 9-09

DAS
27
9-09

Location	Loc Qty	Loc Code
cck023a	60	
123143	50	
124501	10	
cck104	5	
103082	1	
123530	4	

4

646.3913 Manufactured No

Each 115.0000 1

646.3913

Shim

DAS
6 28
9-09 9-09

DAS
27
9-09

Location	Loc Qty	Loc Code
cck023a	25	
124108	25	
cck023aq	82	
126060	82	
cck104	8	
100136	2	
126231	6	

1

AN3-12A Purchased No

Each 87.0000 2

AN3-12A

Bolt

DAS
6 28
9-09 9-09

DAS
27
9-09

Location	Loc Qty	Loc Code
GA	44	
m129682	44	
ST349	43	
m133064	43	

133234 X2

NOV 06 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Thursday, September 03, 2015 8:07:56 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-16

Purchased

No

Each

168.0000

2

MS27039-1-16

Screw

**

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

ST285

168

m130388

4

m131317

64

m132344

100

2

650.9201

Manufactured

No

Each

0.0000

2

650 9201

Eyelet Bracket Assembly

**

DAS

DAS

6

28

9-89

9-89

AN44-5A

Purchased

No

Each

14.0000

2

AN44-5A

Eyebolt

**

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

ST339

14

124241

4

m126193

10

2

AN665-34R

Purchased

No

Each

12.0000

2

AN665-34R

Clevis

**

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

ST330

12

M130388

4

M133031

8

2

AN4C7A

Purchased

No

Each

64.0000

2

AN4C7A

BOLT

**

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

ST345

64

m127363

64

2

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Thursday, September 03, 2015 8:07:56 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0432P

Purchased

No

Each

954.0000

4

NAS1149F0432P

WASHER

133234

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

500

M132551

500

st268

454

M128995

63

M130388

8

M132677

383

DAS
27
9-89

MS21042L4

Purchased

No

Each

2,226.000

2

MS21042L 4

Locknut

133363

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

2

m124231

2

GA

122

m127813

122

ST260a

170

m130799

56

m131803

6

m132262

108

ST305

1932

m128300

8

m130388

7

m130922

97

m131618

12

m132123

56

m132382

1752

DAS
27
9-89

DAS
6
9-89

NOV 06 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : _____			

Picklist Print

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Thursday, September 03, 2015 8:07:56 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

AN316C4R Purchased No

Each 15.0000 2

AN316C4R

NUT

**

133523 NOV 06 2015

DAS
27
9-09

Location

Loc Qty

Loc Code

ST331

15

m127618

15

DAS
28
9-09

MS21042-3 MS21042L3 Purchased No

Each 549.0000 2

MS21042-3

Nut / use MS21042L3

**

Location

Loc Qty

Loc Code

CA

501

M129682

501

ST305

48

M128770

10

M129541

15

M130388

23

NOV 06 2015
DAS
28
9-09

DAS
27
9-09

MS27039-08-13 Purchased No

Each 406.0000 2

MS27039-08-13

Screw

**

Location

Loc Qty

Loc Code

ST273A

346

124326

346

ST281

60

4067

56

M130388

4

NOV 06 2015
DAS
28
9-09

DAS
27
9-09

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Thursday, September 03, 2015 8:07:57 AM

Work Order ID: 136591

136591

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 9/4/2015

Required Date: 9/11/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042-08

MS21042L08

Purchased

No

Each

33.0000

2

MS21042-08

USE MS21042L08

**

1248 128401

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

NAS1149FN832P

Purchased

No

Each

2,336.000

4

NAS1149FN832P

Washer

**

133284

DAS
9
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

1415

125268

1415

st268

921

M130388

921

NOV 06 2015

BAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04731

SHEET 1 OF 2

DWG NO. 646.4000

REV: A

PREPARED BY J. SOTO

DATE: 11/04/2014

EFFECT ON DWG
☒ INC. ☐ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
 A-ADD C-CREATE
 R-REVISE D-DELETE

REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.

136591 MCL
 1509-04

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N	TC	PART NUMBER	.4003	.4001			
			QTY		DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

☐ MDL
 ☒ INSTALL INSTRUCTIONS
 ☒ ICA
 ☐ FMS
 ☒ BOM

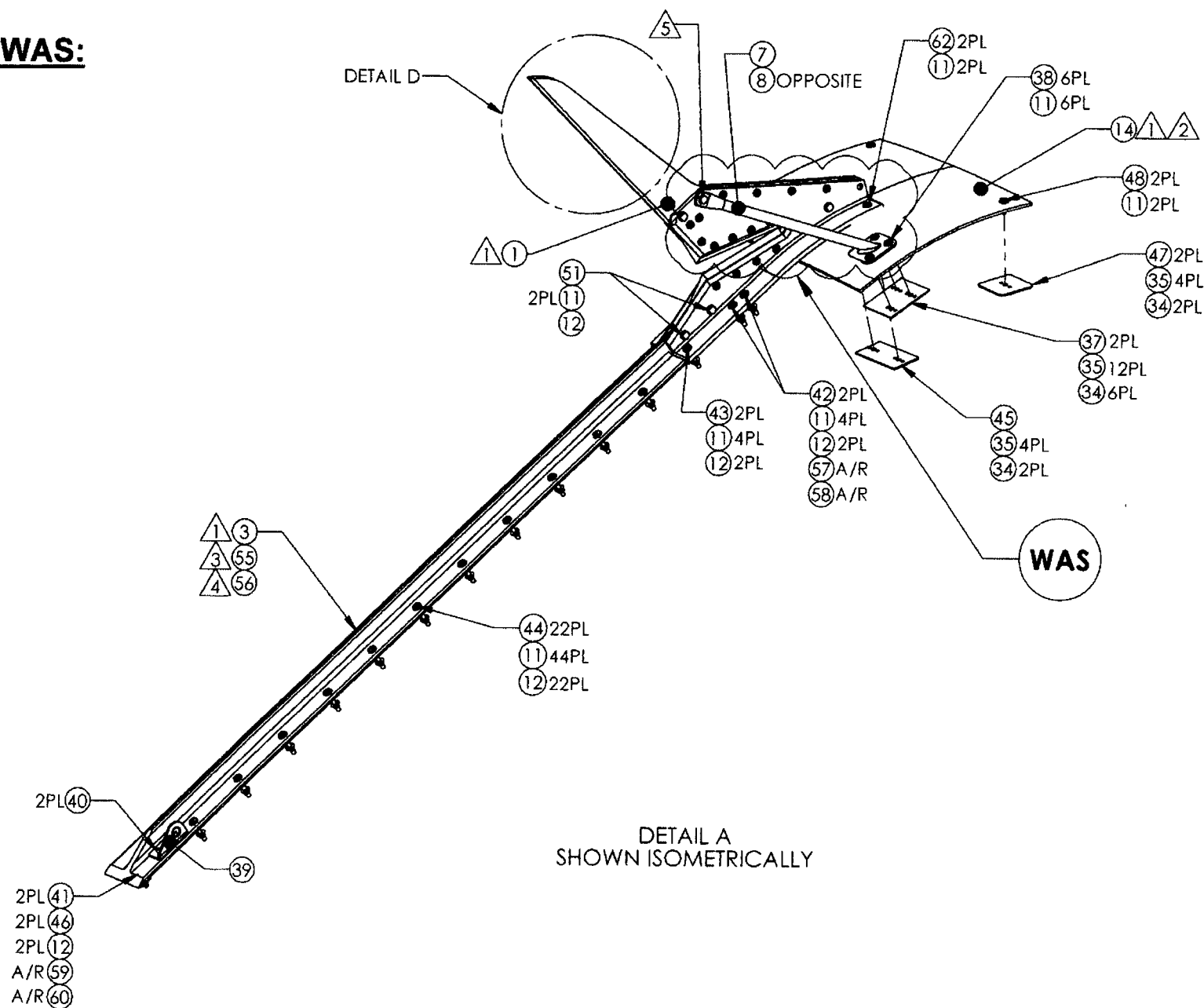
CHANGE CATEGORY

☐ MAJOR
 ☒ MINOR

DER REVIEW REQUIRED

☐ YES
 ☒ NO

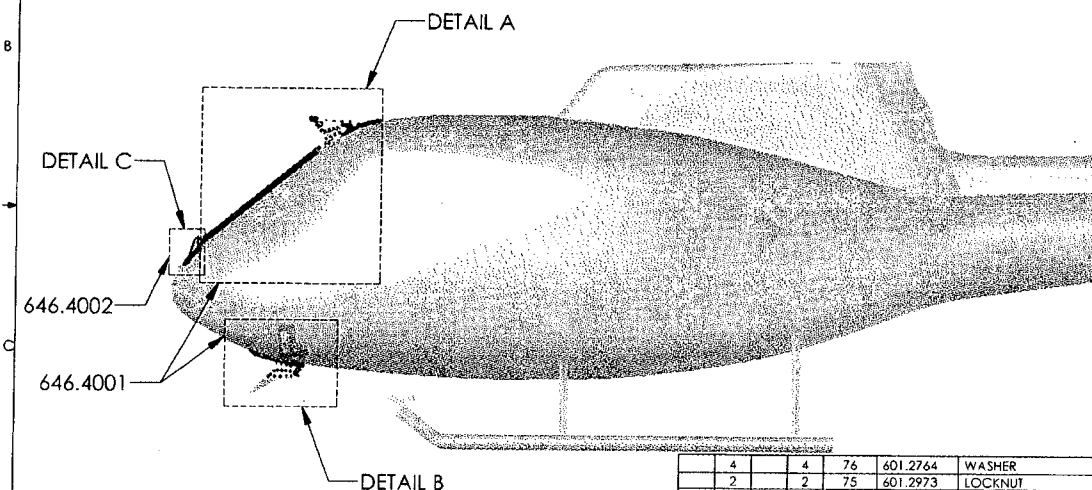
SHEET 2 WAS:



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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1

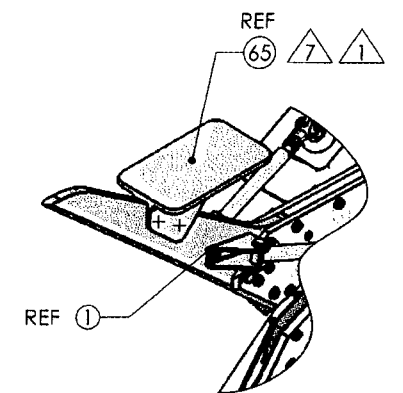


	4	4	76	601.2764	WASHER	NAST149T4832 P
	2	2	75	601.2973	LOCKNUT	M521042-08
	2	2	74	601.2988	SCREW	M527039-0B13
	2	2	73	601.2943	LOCKNUT	M521042-3
	2	2	72	601.3128	NUT	AN316C4R
	2	2	71	601.3209	LOCKNUT	M521042-4
	4	4	70	601.2638	WASHER	NAST149T4832 F
	2	2	69	601.2669	BOLT	ANHC7A
	2	2	68	601.3119	CLEVIS	AN665-3AR
	2	2	67	601.3121	EYE BOLT	AN44-SA
	2	2	66	450.9201	EYE BRACKET ASSY	
REF	REF	REF	65	647.5701	GPS MOUNT KIT	
	6		64	601.3151	WASHER	NAST149T4832P
	2		63	601.2911	SCREW	M526495S3
	2	2	62	601.2637	SCREW	M527039-1-16
	2	2	61	601.2763	BOLT	AN3-12A
	1	1	60	646.3913	SHIM	
	4	4	59	646.3912	SHIM	
	1	1	58	646.3911	SHIM	
	4	4	57	646.3910	SHIM	
	5	5	56	600.1013	PRIMER	
.0004	.0003	.0002	.0001	FIND #	PART #	
					DESCRIPTION	MATL
						SPEC.

	8 FT		8 FT	55	600.0129	YHB TAPE		
	1	1	1	54	600.1012	SEALANT		PR-142S CLASS B
	1		1	53	600.0991	MAGNOBOND 6398 PART B		
	1		1	52	600.0990	MAGNOBOND 6398 PART A		
	10		10	51	601.2826	BOLT		AN3-11A
		2		50	646.3814	WIPER BRACKET		
		2	2	49	601.2910	SCREW		MS27039-1-18
	2		2	48	601.1365	SCREW		MS27039-1-10
	2		2	47	646.3719	DOUBLER		
	2	2	2	46	646.3718	CUSTOM WASHER		
	1		1	45	646.3717	DOUBLER		
	22	2	22	44	601.1948	SCREW		MS27039-1-19
	2		2	43	601.1952	SCREW		MS27039-1-20
	4	4	4	42	601.1956	SCREW		MS27039-1-21
	2	2	2	41	601.2829	SCREW		MS2669554
	2	2	2	40	601.2831	RIVET		MS20426AD5-7
	1	1	1	39	646.3716	GAUGE BRACKET		
	6		6	38	601.1953	SCREW		MS27039-1-12
	2		2	37	646.3715	STRUT DOUBLER		
	2		2	36	601.2824	BOLT		AN3-5A
36			36	35	601.2277	RIVET		CC926455-302
18			18	34	600.0795	NUTPLATE		MS21047-3
3			3	33	601.2565	RIVET		MS20426AD5-7
	1		1	32	646.3813	STRUT BRACKET		
4			4	31	601.2822	BOLT		AN3-3A
2			2	30	646.3812	GUSSET BRACKET		
8			8	29	601.2564	RIVET		MS20470AD5-6
1			1	28	646.3714	GUSSET		
	1		1	27	646.3610	FILLER		
	1		1	26	601.2830	SCREW		MS2669555
2		2	2	25	601.2825	BOLT		AN3-6A
1		1	1	24	646.3811	RADIUS BLOCK		
		1	1	23	646.3712	CLIP		
		1	1	22	646.3711	CLIP		
8			8	21	601.2832	RIVET		MS20104D5-5-5
14			14	20	601.2020	RIVET		CS3213-5-3
10			10	19	601.2823	BOLT		AN3-4A
	1		1	18	601.2827	BOLT		AN3-13A
	5		5	17	601.2912	SCREW		MS2669551
1			1	16	646.3713	GUSSET		
1			1	15	646.3210	SUPPORT		
1			1	14	646.3710	DOUBLER		
	1		1	13	646.3110	CHANNEL		
8	53	6	61	12	601.1624	LOCKNUT		MS21042L3
18	120	16	138	11	601.1607	WASHER		NAS1199D332P
		1		10	646.3410	LH WIPER DEFLECTOR		
		1		9	646.3411	RH WIPER DEFLECTOR		
	2	2	2	8	647.7703	STRUT ASSY		
	2	2	2	7	647.0112	STRUT BRACKET		
	1		1	6	646.3511	STRUT		
	1		1	5	646.3510	STRUT		
2			2	4	646.3810	BRACKET		
	1		1	3	646.2910	DEFLECTOR		
	1		1	2	646.3001	LOWER CUTTER ASSY		
	1		1	1	646.3301	UPPER CUTTER ASSY		
X					646.4004	FIXED PROVISIONS KIT		
	X				646.4003	CABLE CUTTERS 17 W/SHOULDER		
		X			646.4002	ASS350 WIPER DEFLECTOR KIT		
			X		646.4001	ASS350 CABLE CUTTERS KIT		
4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

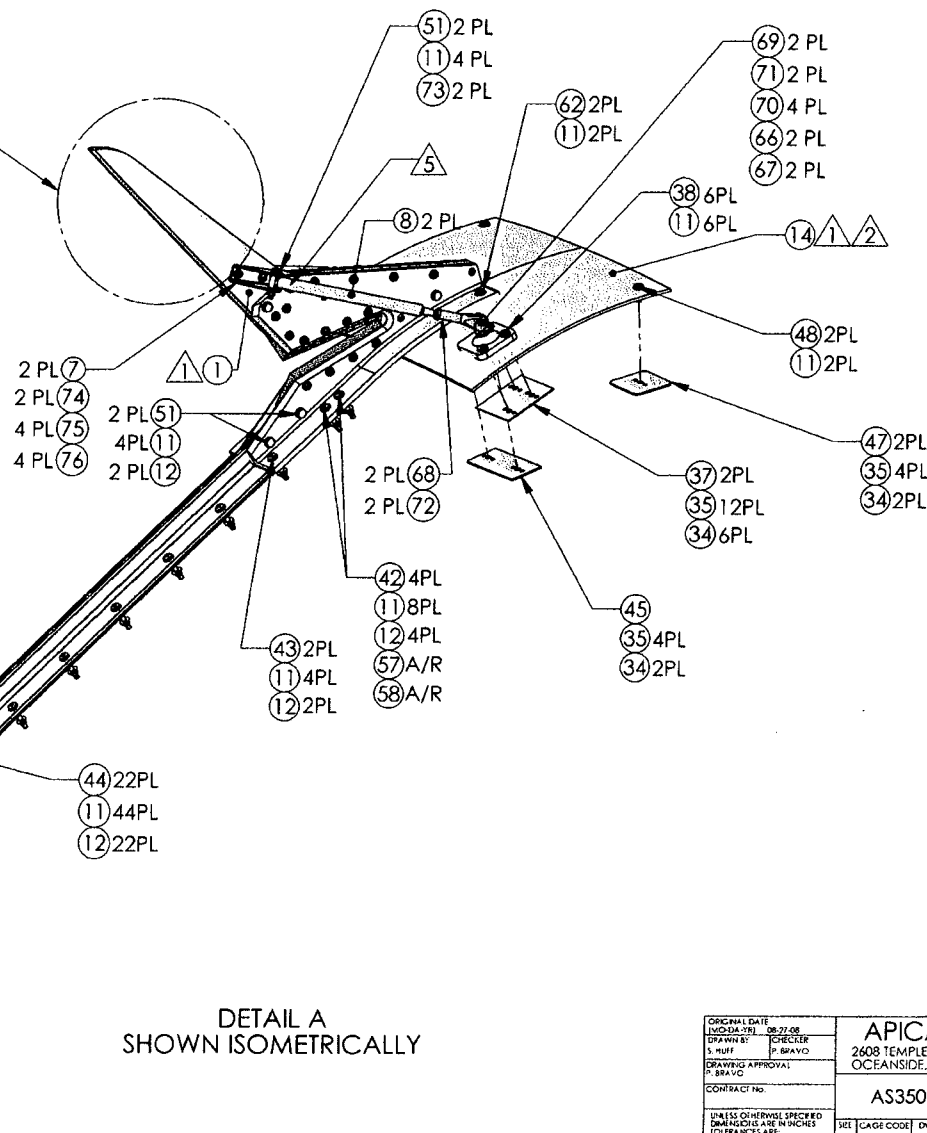
QTY	ORIGINAL DATE MAY 20 1987-28	PARTS LIST	
NEXT ASSY (S)	DRAWN BY S. HUFF	CHECKED BY P. BRAVO	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
	DRAWING APPROVAL DATE 05-22-88		
	CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE FRANCHISE TOLERANCES ARE: 3 RACE DIMENSIONS ± .005 3 RACE DIMENSIONS ± .005 ANGLES ± .005			
REV	DATE	REV	DATE
B	07/26/88	B	07/26/88
SCALE: NONE		DWG. NO. 646.4000	

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DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

DETAIL D



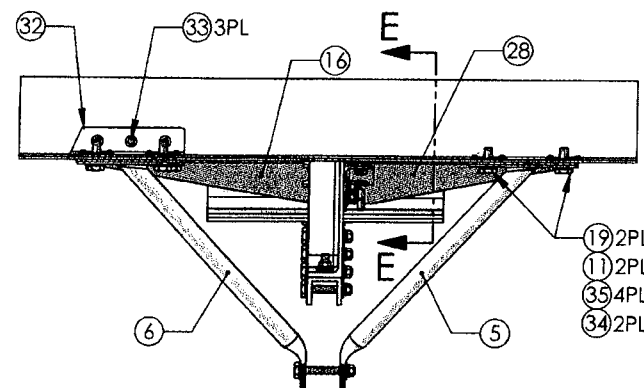
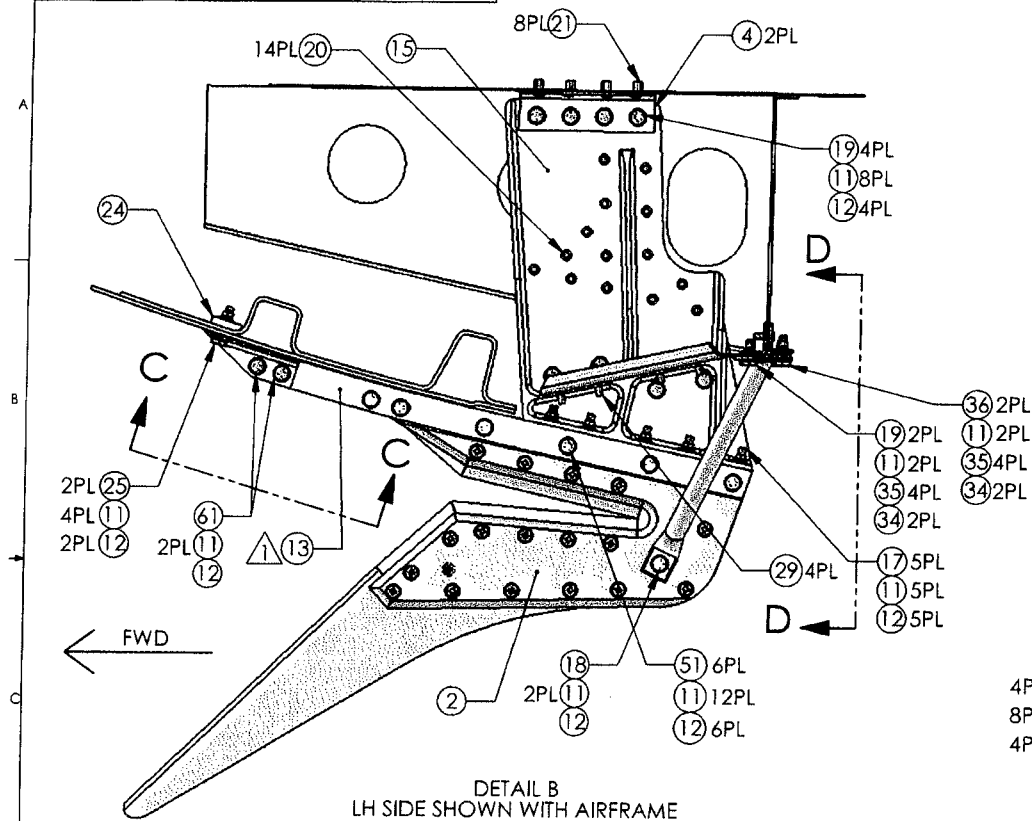
DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE (MM/DD/YY) 08/27/08		APICAL INDUSTRIES	
DRAWN BY: J. HUFF		2608 TEMPLE HEIGHTS DR.	
CHECKED BY: P. BRAVO		OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWING APPROVAL: P. BRAVO		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		SHEET: B	REV: B
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		DWG. NO. 646.4000	SCALE: NONE
		SHEET 2 OF 4	

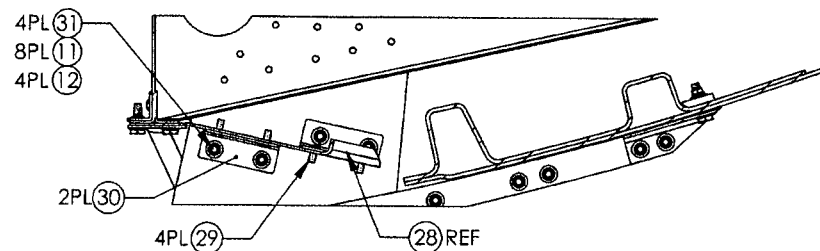
1 2 3 4 5 6 7 8

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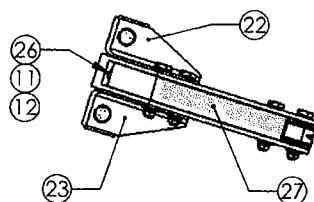
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

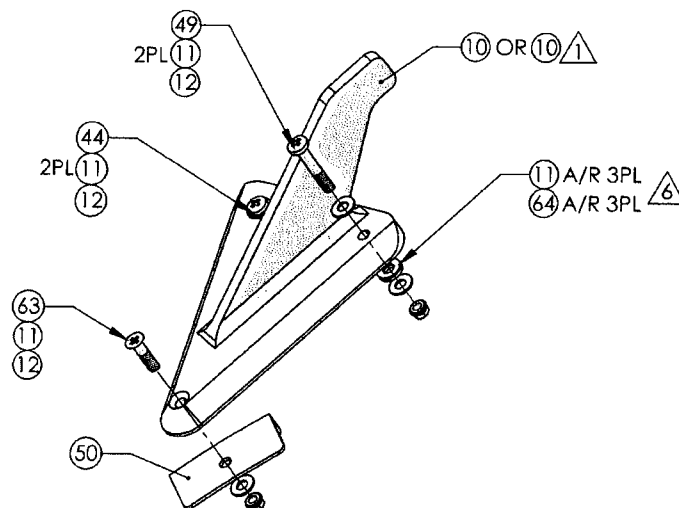


SECTION C-C

ORIGINAL DATE: 08-27-08		APICAL INDUSTRIES	
BY: S. HUR		2608 TEMPLE HEIGHTS DR.	
CHECKED: P. BRAYO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL: P. BRAYO		AS350 CABLE CUTTERS KIT	
CONTRACT NO:		SHEET 3 OF 4	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE: NONE	REV: B
SHEET: B		CAGE CODE: 07M26	DWG. NO.: 646.4000

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



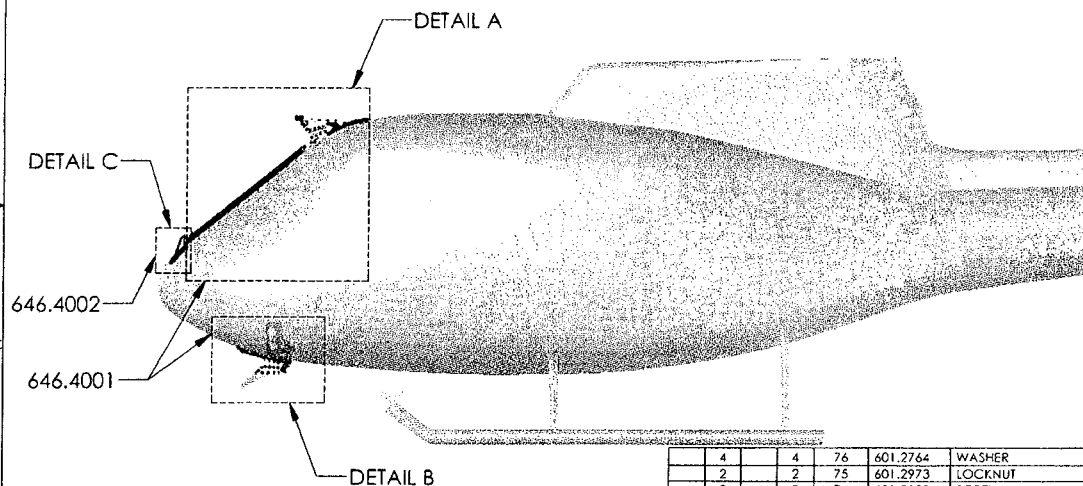
DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MO-DA-YR) 05-27-08	APICAL INDUSTRIES		
DRAWN BY C. HUBB	2608 TEMPLE HEIGHTS DR.		
CHECKED BY P. BRAVO	OCEANSIDE, CA. 92056-3512 (760) 724-5300		
DRAWING APPROVAL P. BRAVO 06/27/08	AS350 CABLE CUTTERS KIT		
CONTRACT # No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	SUB	CAGE CODE DWG. NO.	REV
1) CANCELS ARE 1	B	07M26	646.4000
2) PLACE DECIMALS 1 01			
3) PLACE DECIMALS 1 005			
4) ANGLES	SCALE	NONE	SHEET 4 OF 4

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1



QTY	REF	REF	REF	QTY	UNIT	PART #	DESCRIPTION	MATL	SPEC
4				76		601.2764	WASHER	NAST149FN83Z P	
2				75		601.2973	LOCKNUT	M521042-08	
2				74		601.2988	SCREW	M527039-0013	
2				73		601.2943	LOCKNUT	M521042-3	
2				72		601.3128	NUT	AH316C4R	
2				71		601.3209	LOCKNUT	M521042-4	
4				70		601.2638	WASHER	NAST149FN83Z P	
2				69		601.2669	BOLT	ANM4C7A	
2				68		601.3119	CLEVIS	AN1665-3AR	
2				67		601.3121	EYE BOLT	ANH4-SA	
2				66		450.9201	EYE BRACKET ASSY		
REF	REF		REF	65		647.5701	GPS MOUNT KIT		
		6		64		601.3151	WASHER	NAST149FN83Z P	
		2		63		601.2911	SCREW	M521042-08	
		2		62		601.2637	SCREW	M527039-1-16	
		2		61		601.2763	BOLT	ANK-12A	
		1		60		546.3913	SHIM		
		4		59		546.3912	SHIM		
		1		58		546.3911	SHIM		
		4		57		546.3910	SHIM		
		5		56		600.1013	PRIMER		
.4004	.4023	.4002	.4001	FIND #		PART #	DESCRIPTION	MATL	SPEC

REV.		DESCRIPTION		DATE	APPROVED
A	INCORPORATED ECHS 02/19/93, 02/19/93, 02/19/93 & 02/19/93			02/08/2010	P. BRAVO
B	INCORPORATED ECHS 0044, 03/07/93 & 04/31/93			11/04/2010	P. BRAVO

8 FT	8 FT	8 FT	55	600.0129	VHB TAPE	
1	1	1	54	600.1012	SEALANT	PE-1425 CLASS B
1	1	1	53	600.0991	MAGNABOND 4398 PART B	
1	1	1	52	600.0990	MAGNABOND 4398 PART A	
10	10	10	51	601.2826	BOLT	AN3-11A
	2		50	646.3814	WIPER BRACKET	
	2		49	601.2910	SCREW	MS27039-1-18
2		2	48	601.1365	SCREW	MS27039-1-10
2		2	47	646.3719	DOUBLER	
	2	2	46	646.3718	CUSTOM WASHER	
1		1	45	646.3717	DOUBLER	
22	2	22	44	601.1948	SCREW	MS27039-1-19
2		2	43	601.1952	SCREW	MS27039-1-10
4		4	42	601.1956	SCREW	MS27039-1-71
2		2	41	601.2829	SCREW	MS2469-454
2		2	40	601.2831	RIVET	MS20426AD5-7
1		1	39	646.3716	GAUGE BRACKET	
	6	39	38	601.1953	SCREW	MS27039-1-12
2		2	37	646.3715	STRUT DOUBLER	
	2	2	36	601.2824	BOLT	A193-5A
36		36	35	601.2277	RIVET	CC93445-340
18		18	34	600.0795	NUTPLATE	MS27047-3
3		3	33	601.2565	RIVET	MS20470AD5-7
1		1	32	646.3813	STRUT BRACKET	
4		4	31	601.2822	BOLT	AN3-3A
2		2	30	646.3812	GUSSET BRACKET	
8		8	29	601.2564	RIVET	MS20470AD5-6
1		1	28	646.3714	GUSSET	
	1	1	27	646.3610	FILLER	
	1	1	26	601.2830	SCREW	MS2469-455
2		2	25	601.2825	ROIL	A193-6A
1		1	24	646.3811	RADIUS BLOCK	
	1	1	23	646.3712	CLIP	
	1	1	22	646.3711	CLIP	
8		8	21	601.2832	RIVET	MS20470AD5-5
14		14	20	601.2020	RIVET	CR3213-5-3
10		10	19	601.2823	BOLT	A193-4A
	1	1	18	601.2827	BOLT	AN3-13A
	5	5	17	601.2912	SCREW	MS2469-451
1		1	16	646.3713	GUSSET	
1		1	15	646.3210	SUPPORT	
1		1	14	646.3710	DOUBLER	
	1	1	13	646.3710	CHANNEL	
8	53	6	12	601.1624	LOCKNUT	MS21042L3
18	120	16	11	601.1607	WASHER	MS1149033P
		1	10	646.3410	LH WIPER DEFLECTOR	
		1	9	646.3411	RH WIPER DEFLECTOR	
2		2	8	647.7703	STRUT ASSY	
2		2	7	647.0112	STRUT BRACKET	
1		1	6	646.3511	STRUT	
1		1	5	646.3510	STRUT	
2		4	4	646.3810	BRACKET	
1		1	3	646.2910	DEFLECTOR	
1		1	2	646.3001	LOWER CUTTER ASSY	
1		1	1	646.3301	UPPER CUTTER ASSY	
X				646.4004	FIXED PROVISIONS KIT	
X				646.4003	CABLE CUTTERS WITH SHUTTLE	
					PROVIDES	
				646.4002	AS350 WIPER DEFLECTION KIT	
				646.4001	AS350 CABLE CUTTERS KIT	

4004	4003	4002	4001	4000	3999	3998	3997	3996	3995	3994	3993	3992	3991	3990	3989	3988	3987	3986	3985	3984	3983	3982	3981	3980	3979	3978	3977	3976	3975	3974	3973	3972	3971	3970	3969	3968	3967	3966	3965	3964	3963	3962	3961	3960	3959	3958	3957	3956	3955	3954	3953	3952	3951	3950	3949	3948	3947	3946	3945	3944	3943	3942	3941	3940	3939	3938	3937	3936	3935	3934	3933	3932	3931	3930	3929	3928	3927	3926	3925	3924	3923	3922	3921	3920	3919	3918	3917	3916	3915	3914	3913	3912	3911	3910	3909	3908	3907	3906	3905	3904	3903	3902	3901	3900	3899	3898	3897	3896	3895	3894	3893	3892	3891	3890	3889	3888	3887	3886	3885	3884	3883	3882	3881	3880	3879	3878	3877	3876	3875	3874	3873	3872	3871	3870	3869	3868	3867	3866	3865	3864	3863	3862	3861	3860	3859	3858	3857	3856	3855	3854	3853	3852	3851	3850	3849	3848	3847	3846	3845	3844	3843	3842	3841	3840	3839	3838	3837	3836	3835	3834	3833	3832	3831	3830	3829	3828	3827	3826	3825	3824	3823	3822	3821	3820	3819	3818	3817	3816	3815	3814	3813	3812	3811	3810	3809	3808	3807	3806	3805	3804	3803	3802	3801	3800	3799	3798	3797	3796	3795	3794	3793	3792	3791	3790	3789	3788	3787	3786	3785	3784	3783	3782	3781	3780	3779	3778	3777	3776	3775	3774	3773	3772	3771	3770	3769	3768	3767	3766	3765	3764	3763	3762	3761	3760	3759	3758	3757	3756	3755	3754	3753	3752	3751	3750	3749	3748	3747	3746	3745	3744	3743	3742	3741	3740	3739	3738	3737	3736	3735	3734	3733	3732	3731	3730	3729	3728	3727	3726	3725	3724	3723	3722	3721	3720	3719	3718	3717	3716	3715	3714	3713	3712	3711	3710	3709	3708	3707	3706	3705	3704	3703	3702	3701	3700	3699	3698	3697	3696	3695	3694	3693	3692	3691	3690	3689	3688	3687	3686	3685	3684	3683	3682	3681	3680	3679	3678	3677	3676	3675	3674	3673	3672	3671	3670	3669	3668	3667	3666	3665	3664	3663	3662	3661	3660	3659	3658	3657	3656	3655	3654	3653	3652	3651	3650	3649	3648	3647	3646	3645	3644	3643	3642	3641	3640	3639	3638	3637	3636	3635	3634	3633	3632	3631	3630	3629	3628	3627	3626	3625	3624	3623	3622	3621	3620	3619	3618	3617	3616	3615	3614	3613	3612	3611	3610	3609	3608	3607	3606	3605	3604	3603	3602	3601	3600	3599	3598	3597	3596	3595	3594	3593	3592	3591	3590	3589	3588	3587	3586	3585	3584	3583	3582	3581	3580	3579	3578	3577	3576	3575	3574	3573	3572	3571	3570	3569	3568	3567	3566	3565	3564	3563	3562	3561	3560	3559	3558	3557	3556	3555	3554	3553	3552	3551	3550	3549	3548	3547	3546	3545	3544	3543	3542	3541	3540	3539	3538	3537	3536	3535	3534	3533	3532	3531	3530	3529	3528	3527	3526	3525	3524	3523	3522	3521	3520	3519	3518	3517	3516	3515	3514	3513	3512	3511	3510	3509	3508	3507	3506	3505	3504	3503	3502	3501	3500	3499	3498	3497	3496	3495	3494	3493	3492	3491	3490	3489	3488	3487	3486	3485	3484	3483	3482	3481	3480	3479	3478	3477	3476	3475	3474	3473	3472	3471	3470	3469	3468	3467	3466	3465	3464	3463	3462	3461	3460	3459	3458	3457	3456	3455	3454	3453	3452	3451	3450	3449	3448	3447	3446	3445	3444	3443	3442	3441	3440	3439	3438	3437	3436	3435	3434	3433	3432	3431	3430	3429	3428	3427	3426	3425	3424	3423	3422	3421	3420	3419	3418	3417	3416	3415	3414	3413	3412	3411	3410	3409	3408	3407	3406	3405	3404	3403	3402	3401	3400	3399	3398	3397	3396	3395	3394	3393	3392	3391	3390	3389	3388	3387	3386	3385	3384	3383	3382	3381	3380	3379	3378	3377	3376	3375	3374	3373	3372	3371	3370	3369	3368	3367	3366	3365	3364	3363	3362	3361	3360	3359	3358	3357	3356	3355	3354	3353	3352	3351	3350	3349	3348	3347	3346	3345	3344	3343	3342	3341	3340	3339	3338	3337	3336	3335	3334	3333	3332	3331	3330	3329	3328	3327	3326	3325	3324	3323	3322	3321	3320	3319	3318	3317	3316	3315	3314	3313	3312	3311	3310	3309	3308	3307	3306	3305	3304	3303	3302	3301	3300	3299	3298	3297	3296	3295	3294	3293	3292	3291	3290	3289	3288	3287	3286	3285	3284	3283	3282	3281	3280	3279	3278	3277	3276	3275	3274	3273	3272	3271	3270	3269	3268	3267	3266	3265	3264	3263	3262	3261	3260	3259	3258	3257	3256	3255	3254	3253	3252	3251	3250	3249	3248	3247	3246	3245	3244	3243	3242	3241	3240	3239	3238	3237	3236	3235	3234	3233	3232	3231	3230	3229	3228	3227	3226	3225	3224	3223	3222	3221	3220	3219	3218	3217	3216	3215	3214	3213	3212	3211	3210	3209	3208	3207	3206	3205	3204	3203	3202	3201	3200	3199	3198	3197	3196	3195	3194	3193	3192	3191	3190	3189	3188	3187	3186	3185	3184	3183	3182	3181	3180	3179	3178	3177	3176	3175	3174	3173	3172	3171	3170	3169	3168	3167	3166	3165	3164	3163	3162	3161	3160	3159	3158	3157	3156	3155	3154	3153	3152	3151	3150	3149	3148	3147	3146	3145	3144	3143	3142	3141	3140	3139	3138	3137	3136	3135	3134	3133	3132	3131	3130	3129	3128	3127	3126	3125	3124	3123	3122	3121	3120	3119	3118	3117	3116	3115	3114	3113	3112	3111	3110	3109	3108	3107	3106	3105	3104	3103	3102	3101	3100	3099	3098	3097	3096	3095	3094	3093	3092	3091	3090	3089	3088	3087	3086	3085	3084	3083	3082	3081	3080	3079	3078	3077	3076	3075	3074	3073	3072	3071	3070	3069	3068	3067	3066	3065	3064	3063	3062	3061	3060	3059	3058	3057	3056	3055	3054	3053	3052	3051	3050	3049	3048	3047	3046	3045	3044	3043	3042	3041	3040	3039	3038	3037	3036	3035	3034	3033	3032	3031	3030	3029	3028	3027	3026
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